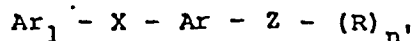


1 19. The process of Claim 15 wherein the compounds
of Formula I are:



5 and salts thereof;

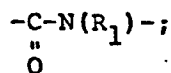
wherein

Ar_1 is a phenyl or naphthyl group;

Ar is a phenyl group;

10 $\text{X} = -\text{O}(\text{CHR}_1)_{n'}-, -\text{S}(\text{CHR}_1)_{n'}-, -\text{NR}_2(\text{CHR}_1)_{n'}-, \text{alkylene}$
 $(\text{O})_{n''}$

of up to 2 carbon atoms in the principal chain and up to
a total of 4 carbon atoms; $-\text{C}(\text{R}_1)=\text{C}(\text{R}_1)-, -\text{C}\equiv\text{C}-, -\text{CH}=\text{N}-,$



15

Z is alkylene chain containing up to 10
carbon atoms in the principal chain and a total of up
to 12 carbon atoms and from 0 to 2 double bonds and the

20 each R is a substituent, attached to one of
the carbon atoms of Z selected from the group consisting
of $=\text{O}$, OR_3 , $\text{N}(\text{R}_2)_2$ and $-\text{COR}_4$;

R_1 is H or CH_3 ;

R_2 is H , lower alkyl, aryl or aralkyl;

25 R_3 is H , lower alkyl, lower alkanoyl, aryl or
aralkyl and said O-heterocyclic group is a pyran group
or tetrahydropyran group;

R_4 is OR_2 or $\text{N}(\text{R}_2)_2$;

$n = 0$ or 1 ;

$n' = 1$ to 7 ; and

30

$n'' = 0, 1$ or 2 .

35

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number:

0 181 568
A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 85113830.5

(22) Date of filing: 30.10.85

(51) Int. Cl.⁴: **C 07 D 215/14, C 07 D 213/30,**
C 07 D 213/79, C 07 C 43/23,
C 07 C 49/76, C 07 D 215/22,
C 07 D 213/84, C 07 C 65/21,
C 07 C 69/76, C 07 C 121/75,
C 07 C 47/575

(30) Priority: 30.10.84 US 666430
22.05.85 US 736795

(43) Date of publication of application: 21.05.86
Bulletin 86/21

(54) Designated Contracting States: AT BE CH DE FR GB IT LI
LU NL SE

(89) Date of deferred publication of search
report: 26.04.89 Bulletin 89/17

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(54) Anti-inflammatory/anti-allergic compounds.

(57) Compounds of the formula:

$Ar_1 - X - Ar - Z - (R)_{n'}$
and salts thereof, wherein Ar_1 is a nitrogen, sulfur, oxygen heterocyclic ring or aromatic ring;

Ar is a phenyl ring or a nitrogen, oxygen or sulfur heterocyclic ring;

Ar and Ar_1 may be fully substituted or less than fully substituted with H, CH_3 , lower alkyl, aryl, aralkyl, halo, hydroxy, lower alkoxy, CF_3 , carboxy, alkylcarboxy, arylcarboxy, alkylcarbalkoxy, alkanoyl, formyl, oxo, nitrilo, amino, aminoalkyl, alkylamine, carbamate, aryloxy, nitro, sulfonyl, sulfonamide, thio, or alkylthio;
 $X = -O(CHR_1)_{n-}$, $-S(CHR_1)_{n-}$, $-NR_2(CHR_1)_{n-}$ alkylene



of up to 2 carbon atoms in the principal chain and up to a total of 4 carbon atoms,

$-C(R_1) = G(R_1)-$, $-C = C-$, $-C(CHR_1)_{n-}$,

$-CH(CHR_1)_{n-}$, $-CH = N-$, $-C(=O)-$, $-C(S-)$, or $-C-N(R_1)-$;
 $\begin{array}{c} \parallel \quad \parallel \quad \parallel \\ O \quad O \quad O \end{array}$

OH

Z is an alkylene chain containing up to 10 carbon atoms in the principal chain and a total of up to 12 carbon atoms and from 0 to 2 double bonds and the said alkylene chain may be attached

to Ar through an oxygen, sulfur or amino nitrogen atom, and when $n' = 2$, one of the R substituents may be halogen on an omega carbon of the alkylene chain Z ;

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
E	EP-A-0 223 368 (AMERICAN HOME PRODUCTS) * example 16 * ---	1 - 19	C 07 D 215/14 C 07 D 213/30 C 07 D 213/79
E	EP-A-0 219 307 (MERCK FROSST) * examples 1 - 11 * ---	1 - 19	C 07 C 43/23 C 07 C 49/76 C 07 D 215/22
E	EP-A-0 206 772 (DUPONT) * tables II, III, etc * ---	1 - 19	C 07 D 213/84 C 07 C 65/21 C 07 C 69/76
E	EP-A-0 206 751 (MERCK FROSST) * tables I, II, III, examples * ---	1 - 19	C 07 C 121/75 C 07 C 47/575 A 61 K 31/47
E	EP-A-0 200 101 (USV) * examples * ---	1 - 19	A 61 K 31/44 A 61 K 31/34 A 61 K 31/38
E	EP-A-0 194 579 (HOECHST) * examples 4a, 6a, 11 * ---	1 - 19	A 61 K 31/085 A 61 K 31/12 -/-
E	EP-A-0 190 722 (USV) * examples 1 - 7, 10 - 16; list page 25 ---	1 - 19	
E	EP-A-0 173 172 (HOECHST) * pages 11, 12; examples; table II * ---	1 - 19	C 07 D 213/00 C 07 D 215/00 C 07 D 307/00
E	EP-A-0 169 581 (BOEHRINGER) * examples * ---	1 - 19	C 07 D 333/00 C 07 C 43/00
P,X	EP-A-0 153 678 (TENAKE) * table 1 (compounds 1, 5); examples 1, 2, 10, 11; reference example 1 * ---	1 - 19	
P,X	DE-A-3 442 034 (OTSUKA) * examples 6, 18, 19, 37, 44 * --- -/-	1 - 19	
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 19-12-1988	Examiner LEONARD
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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P,X	US-A-4 520 199 (KOHN) * examples 1 - 4; table A *	1 - 19	A 61 K 31/19 A 61 K 31/235 A 61 K 31/165 A 61 K 31/275
P,X	EP-A-0 142 328 (DOW) * examples 1(F), 2, 3, 4(C), 5(E), 5(F), list on pages 19, 20 *	1 - 19	
X	US-A-4 469 872 (ANDERSON) * examples 1 - 10; table B *	1 - 19	
X	DE-A-3 405 395 (YAMADA) * compounds no. 4 (page 21), 8 (page 23) *	1 - 19	
X	US-A-4 464 533 (KRASS) * column 3, lines 29, 30 *	1 - 19	
X	US-E- 31 624 (DEWHIRST) * whole document, especially example 3 *	1 - 19	
X	EP-A-0 110 405 (USV) * whole document, especially examples *	1 - 19	TECHNICAL FIELDS SEARCHED (Int. Cl.4)
X	EP-A-0 109 483 (ZOECON) * examples, tables *	1 - 19	
X	FR-A-2 534 582 (KOTOKUKI) * examples; list pages 2 - 4 *	1 - 19	
X	EP-A-0 098 751 (ICI AUSTRALIA) * tables; list pages 6 - 7 *	1 - 19	
X	GB-A-2 119 801 (HOFFMANN) * examples *	1 - 19	
		-/-	
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	EP-A-0 086 375 (CELAMERCK) * examples; lists *	1 - 19	
X	WO-A-8 204 045 (MAX PLANCK) * compounds on pages 6, 7, 9 *	1 - 19	
X	EP-A-0 063 418 (ICI) * examples; tables *	1 - 19	
X	DE-A-3 101 544 (HOECHST) * examples; tables *	1 - 19	
X	PATENT ABSTRACTS OF JAPAN vol. 6, no. 102 (C-107) (980), 11th June 1982; & JP - A - 57 32279 (MITSUBISHI), 20-02-1982 * whole document *	1 - 19	
X	US-A-4 325 729 (REMPFLER) * examples *	1 - 19	
X	US-A-4 287 335 (ICHIMURA) * examples; tables *	1 - 19	
X	DE-A-3 006 351 (BASF) * examples *	1 - 19	
X	EP-A-0 041 476 (CIBA-GEIGY) * examples *	1 - 19	
X	EP-A-0 034 349 (TENAKE) * whole document, especially examples *	1 - 19	
X	EP-A-0 029 319 (ICI AUSTRALIA) * examples *	1 - 19	TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
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X	US-A-4 255 585 (THUILLIER) * examples *	1 - 19	
X	US-A-4 236 912 (JOHNSTON) * examples *	1 - 19	
X	GB-A-2 042 539 (NISSAN) * examples *	1 - 19	
X	GB-A-2 030 131 (TEIJO) * formula VII; examples *	1 - 19	
X	FR-A-2 426 045 (MEIJI) * example 3 *	1 - 19	
X	FR-A-2 417 488 (KUMIAI) * examples *	1 - 19	
X	EP-A-0 003 532 (BYK GULDEN) * examples *	1 - 19	
X	EP-A-0 002 408 (SOCIETE DE RECHERCHES INDUSTRIELLES) * examples, table *	1 - 19	
X	US-A-4 145 354 (MOOKHERGEE) * columns 1, 2, examples 1, 2 *	1 - 19	
X	CH-A- 603 638 (CIBA-GEIGY) * examples *	1 - 19	
-/-			
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X	DE-A-2 756 771 (CIBA-GEIGY) * claims, examples *	1 - 19	
X	US-A-4 053 607 (THORNE) * column 9 et seq.; compounds 16 - 32, 39, 42; examples *	1 - 19	
X	US-A-4 024 273 (BRENNER) * examples *	1 - 19	
X	DE-A-2 647 907 (ELI LILLY) * tables; lists *	1 - 19	
X	US-A-4 017 632 (THUILLIER) * examples *	1 - 19	
X	DE-A-2 640 430 (SMITHKLINE) * page 2; examples *	1 - 19	
X	US-A-3 947 470 (BRENNER) * examples *	1 - 19	
X	DE-A-2 522 655 (LABAZ) * examples *	1 - 19	
X	DE-A-2 415 867 (MERCK PATENT) * examples *	1 - 19	
X	GB-A-1 357 212 (LABAZ) * list, pages 2 - 3, examples *	1 - 19	
X	DE-A-2 350 148 (ROUSSEL-UEAF) * whole document, especially examples *	1 - 19	
X	US-A-3 793 328 (HESTER) * listed compounds in column 2; examples 2, 3 *	1 - 19	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 19-12-1988	Examiner LEONARD
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001815686

Application Number

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	DE-B-1 939 809 (THOMAE) * whole document, especially list on page 9; examples * ---	1 - 19	
X	SYNTHESIS no. 11, 1976, pages 764 - 765; G. COUDERT et al.: "Synthesis of 2-(2-Oxoalkyl)-quinolines and 4-(2Oxoalkyl)-quinolines" * compounds 6(t), 7(t) * ---	1 - 19	
X	JOURNAL OF MEDICINAL CHEMISTRY vol. 14, no. 3, 1971, pages 198 - 202; A.R. PATEL et al.: "Some New alpha-Alkylaminomethyl-4-quinolinemethanols" * lists; tables * ---	1 - 19	
X	JOURNAL OF MEDICINAL CHEMISTRY vol. 15, no. 1, 1972, pages 45 - 48; M. NAKANISHI et al.: "1-Amino-3-phenoxy-2-propanol Derivatives as beta-Adrenergic Blocking Agents" * tables * -----	1 - 19	
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Place of search BERLIN		Date of completion of the search 19-12-1988	Examiner LEONARD
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